Abstract of the Disclosure

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is a dye-sensitized solar cell including Provided liquid-type imidazolium material, which is liquid at a room temperature to a high temperature, as electrolyte. The dyesensitized solar cell includes a semiconductor electrode; a electrolyte confronting electrode; and of 1,3vinylalkylimidazolium iodide family being inserted between the semiconductor electrode and the confronting electrode. the solar cell the present research of uses vinylalkylimidazolium iodide instead iodine-family of oxidation and reduction electrolyte including organic solvent easily volatilized at a high temperature. Thus, the solar cell can have excellent thermal stability and temperature stability as well as high energy conversion efficiency.